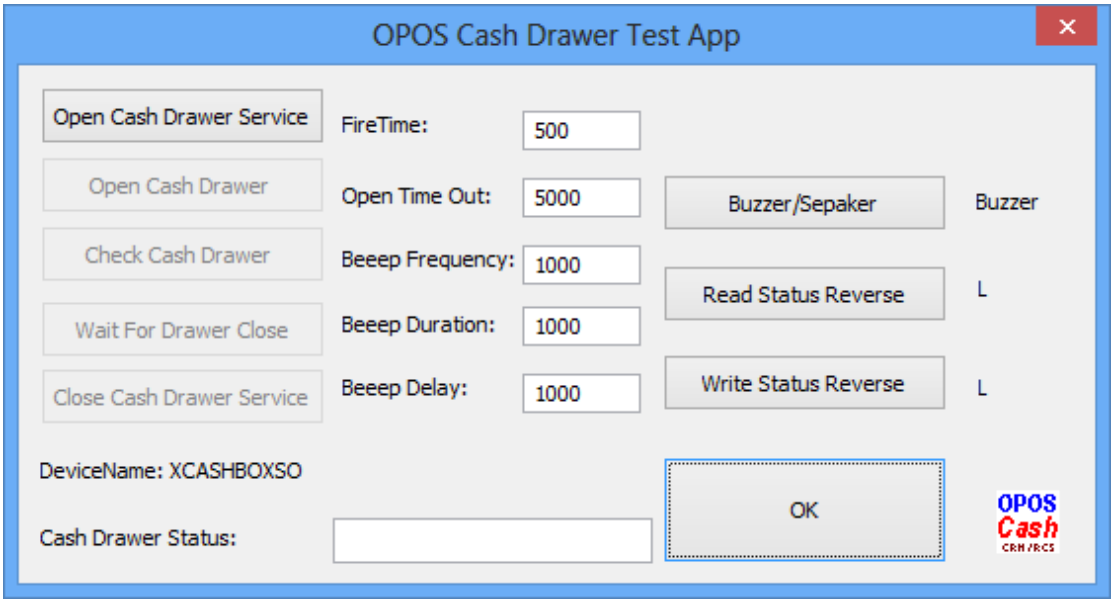
Cash Drawer OPOS tool User's Manual V1.4



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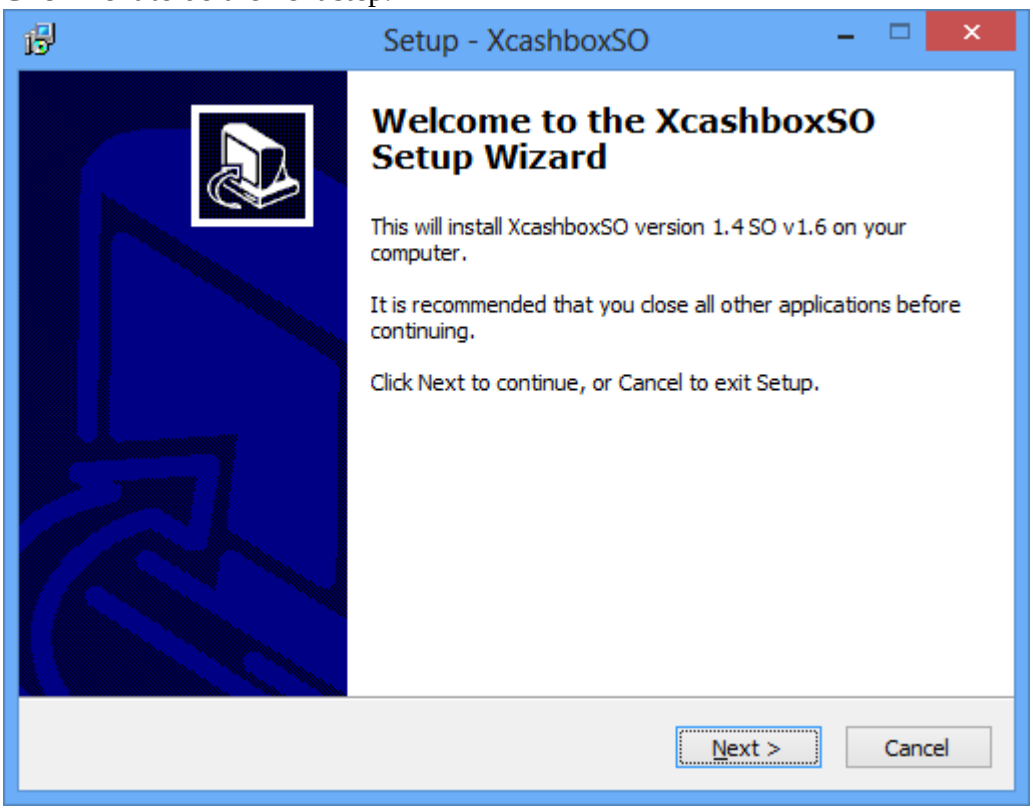
1.

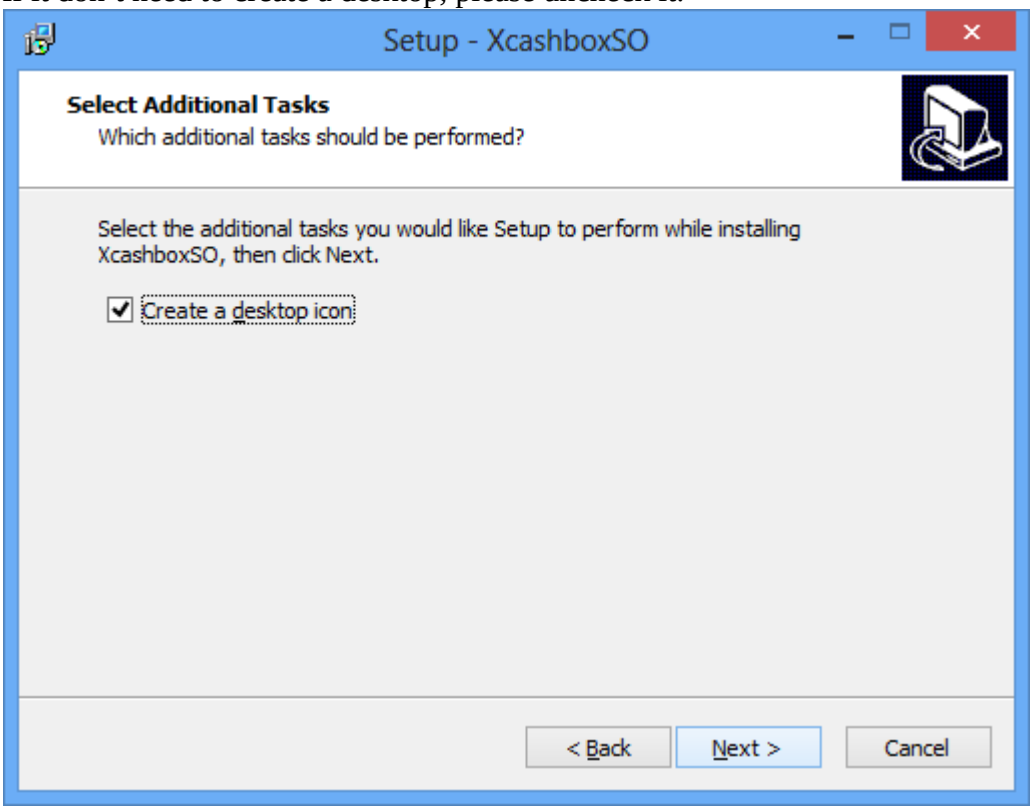
Software Installation Setup

1.1. Installation step by step

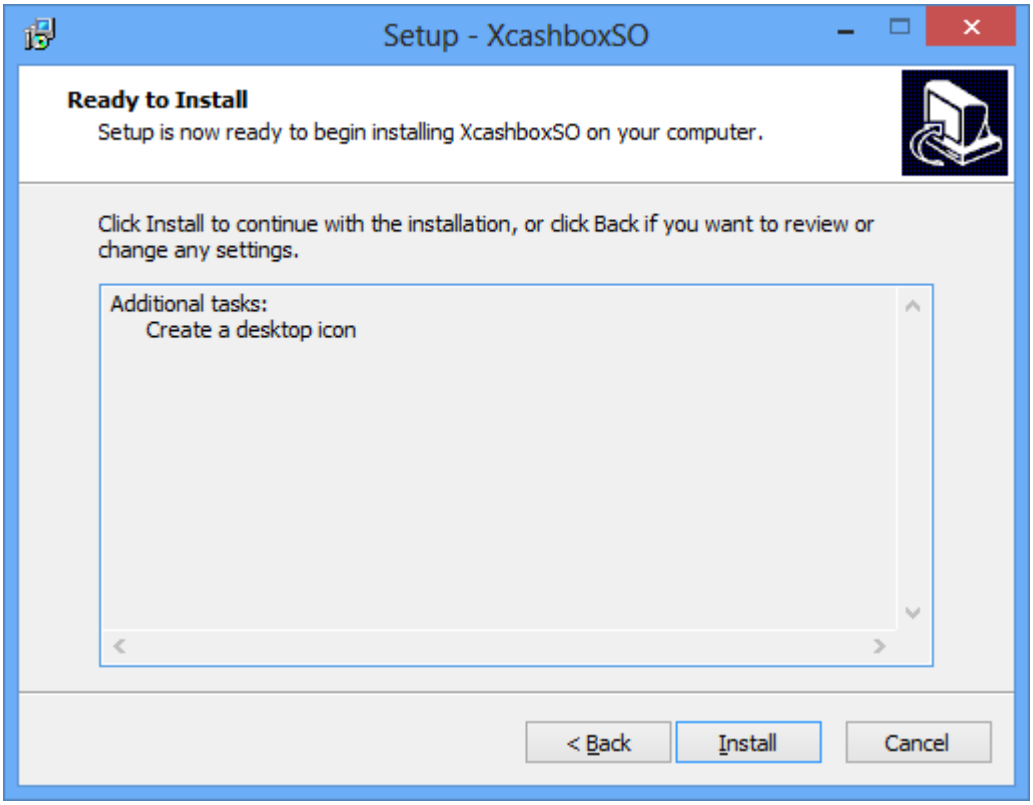
Please click XcashboxSO.exe to launch the XcashboxSO installer Setup Wizard.
Click Next to do the next step.


Setup - XcashboxSO
Welcome to the XcashboxSO Setup Wizard
This will install XcashboxSO version 1.4 SO v1.6 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

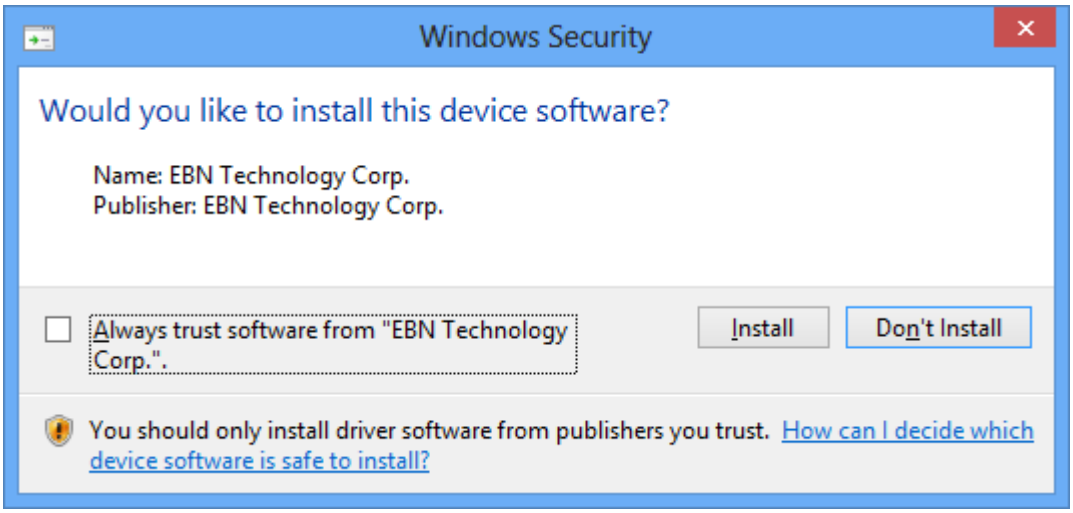
Please Click Next button. It will create a desktop icon.
If it don’t need to create a desktop, please uncheck it.


Setup - XcashboxSO
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing XcashboxSO, then click Next.
Create a desktop icon
< Back
Next >
Cancel

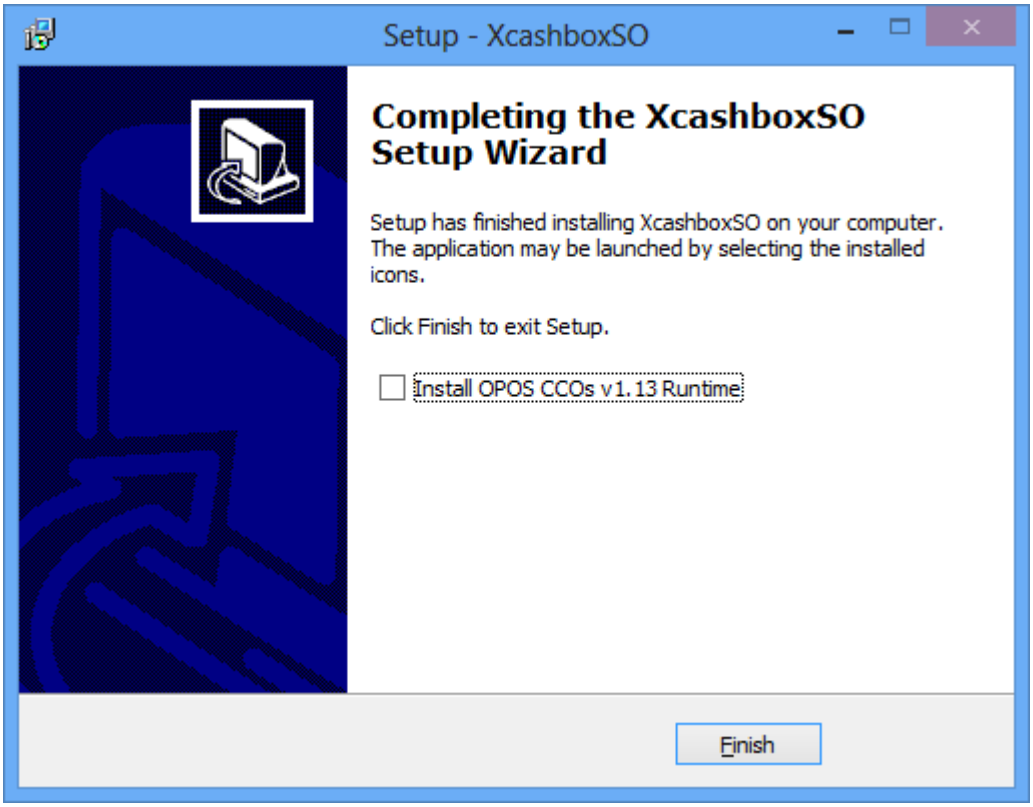
Click the Next button to start install XcashboxSO OPOS driver.


Setup - XcashboxSO
Ready to Install
Setup is now ready to begin installing XcashboxSO on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Additional tasks:
Create a desktop icon
< Back
Install
Cancel

It is necessary to install XcashboxSO IO driver at windows all version 64bit OS.
Please click the Install button to install it.

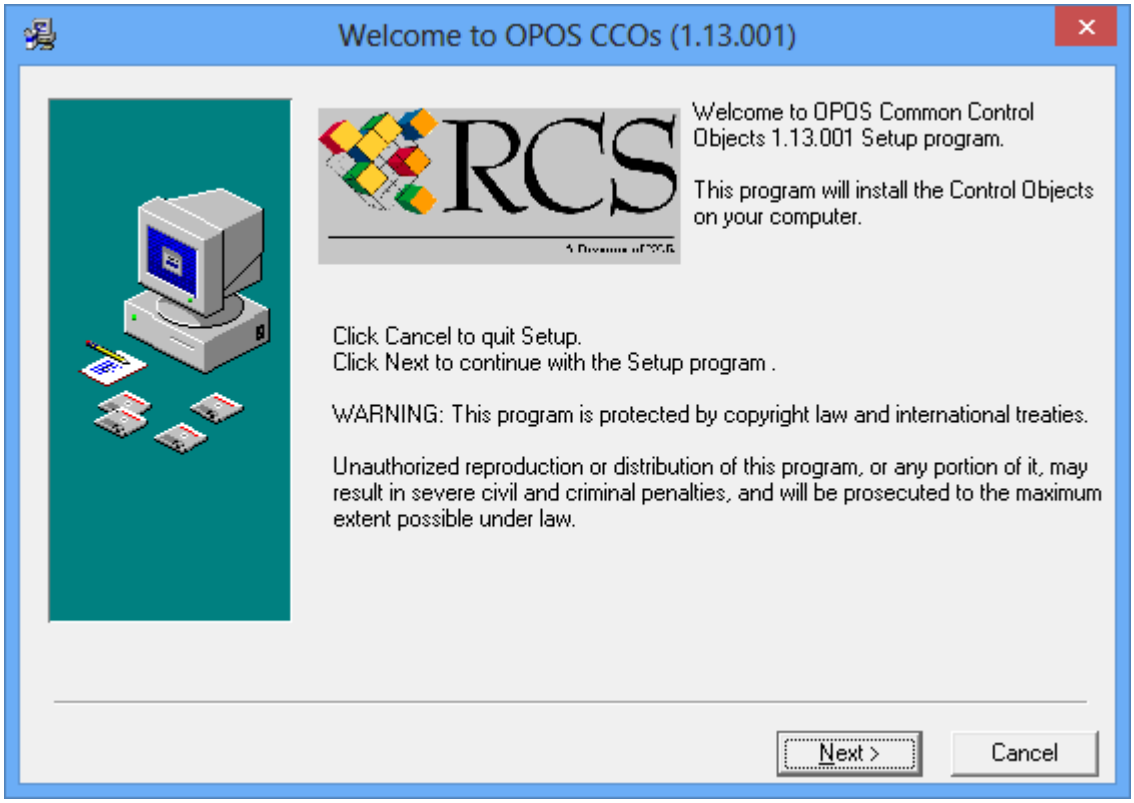

Windows Security
Would you like to install this device software?
Name: EBN Technology Corp.
Publisher: EBN Technology Corp.
Always trust software from "EBN Technology Corp.".
Install
Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

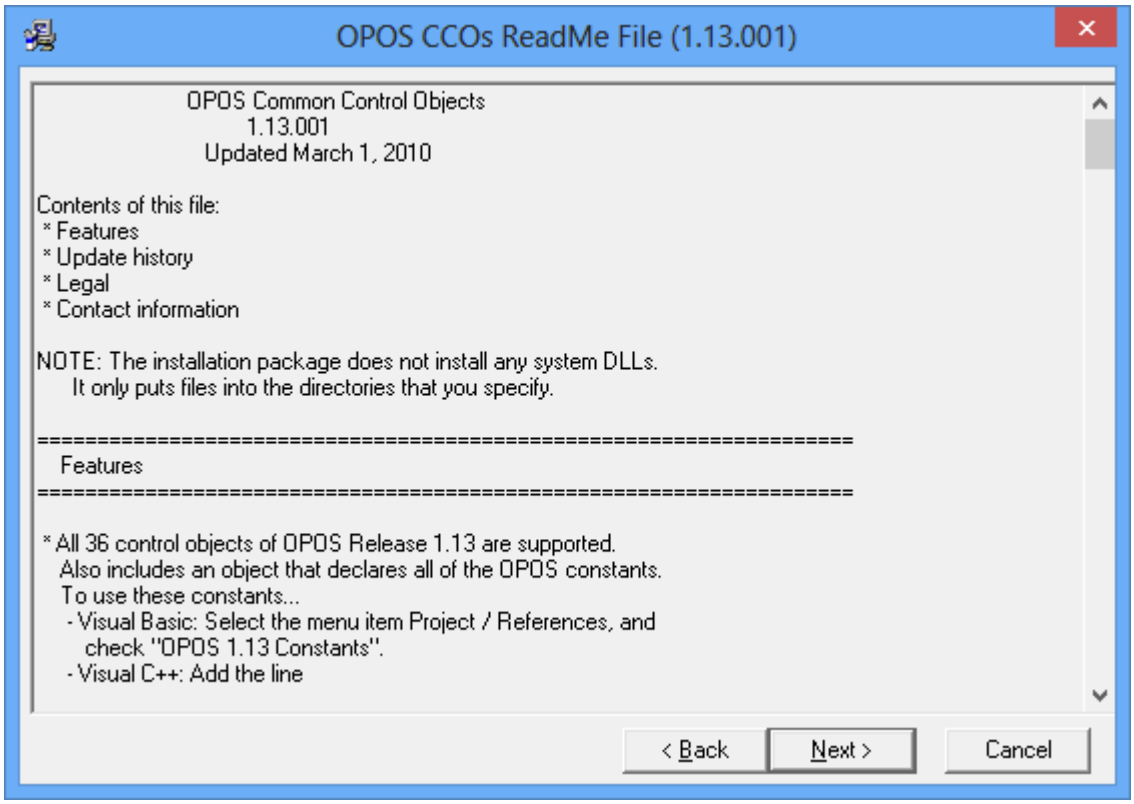
If necessary, Please check the checkbox “Install OPOS CCOs v1.13 Runtime” or click the finish button to exit.

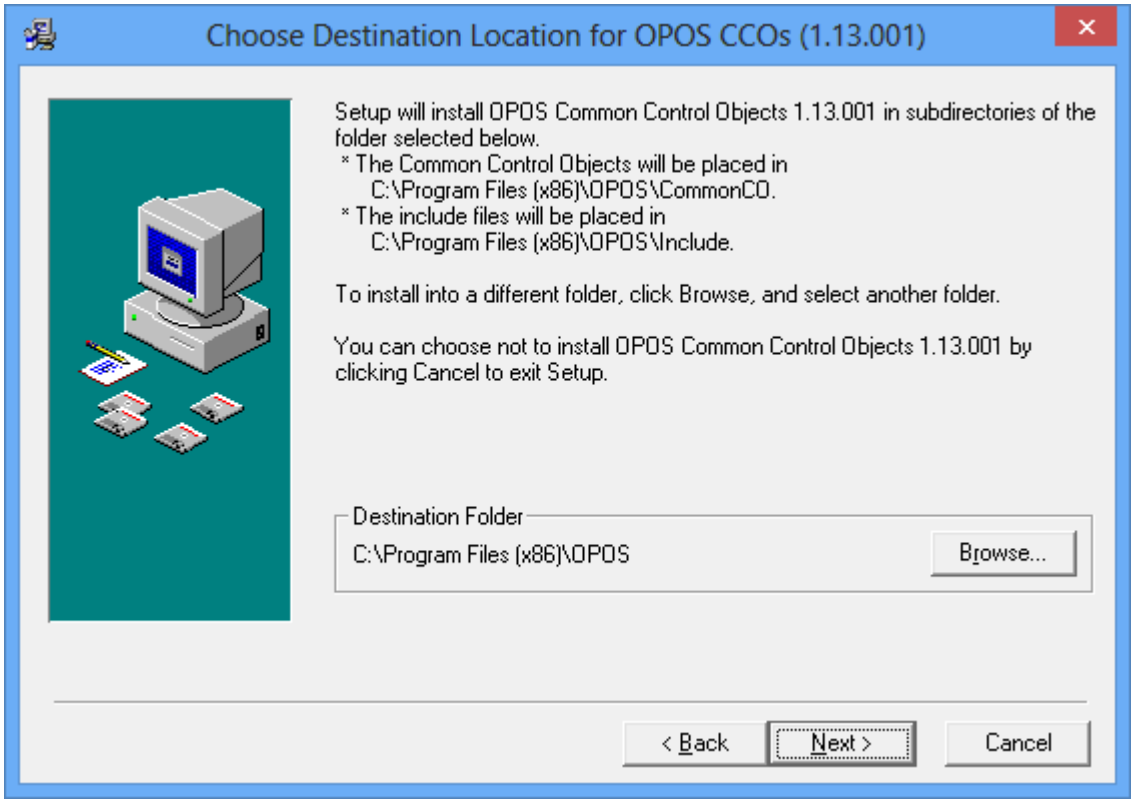

Setup - XcashboxSO
Completing the XcashboxSO Setup Wizard
Setup has finished installing XcashboxSO on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Install OPOS CCOs v1.13 Runtime
Finish

1.2. Install OPOS CCOs v1.13 Runtime

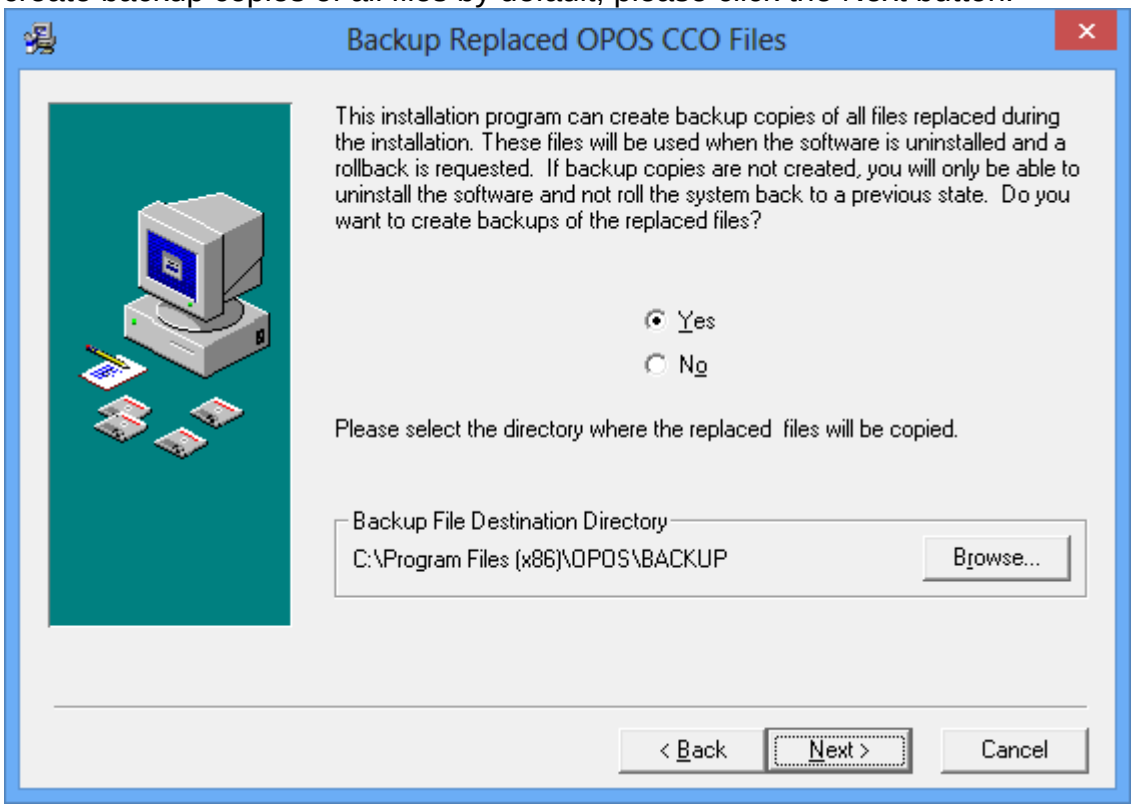
1.Click the Next to start to install OPOS CCOs v1.13.001.


Welcome to OPOS CCOs (1.13.001)
RCS
Welcome to OPOS Common Control Objects 1.13.001 Setup program.
This program will install the Control Objects on your computer.
Click Cancel to quit Setup.
Click Next to continue with the Setup program .
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

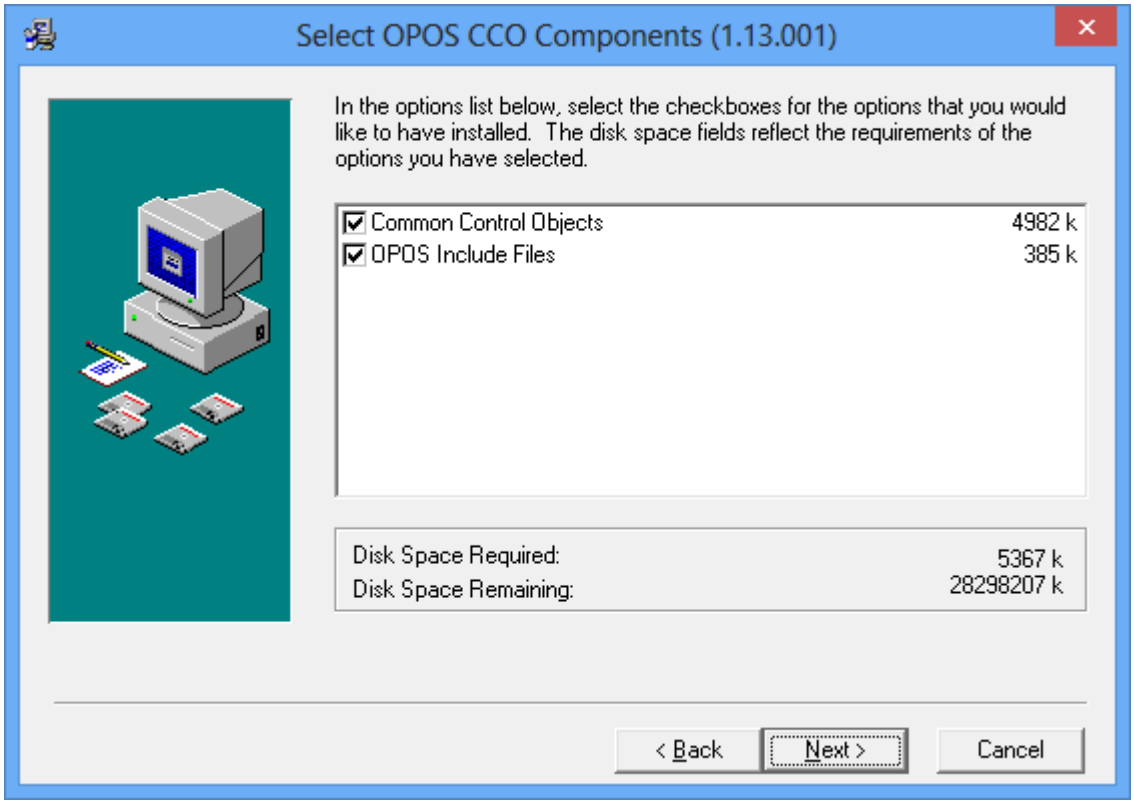

OPOS CCOs ReadMe File (1.13.001)
OPOS Common Control Objects
1.13.001
Updated March 1, 2010
Contents of this file:
* Features
* Update history
* Legal
* Contact information
NOTE: The installation package does not install any system DLLs.
It only puts files into the directories that you specify.
Features
* All 36 control objects of OPOS Release 1.13 are supported.
Also includes an object that declares all of the OPOS constants.
To use these constants...
- Visual Basic: Select the menu item Project / References, and
check "OPOS 1.13 Constants".
- Visual C++: Add the line
< Back
Next >
Cancel


Choose Destination Location for OPOS CCOs (1.13.001)
Setup will install OPOS Common Control Objects 1.13.001 in subdirectories of the folder selected below.
* The Common Control Objects will be placed in
C:\Program Files (x86)\OPOS\CommonCO.
* The include files will be placed in
C:\Program Files (x86)\OPOS\Include.
To install into a different folder, click Browse, and select another folder.
You can choose not to install OPOS Common Control Objects 1.13.001 by clicking Cancel to exit Setup.
Destination Folder
C:\Program Files (x86)\OPOS
Browse...
< Back
Next >
Cancel

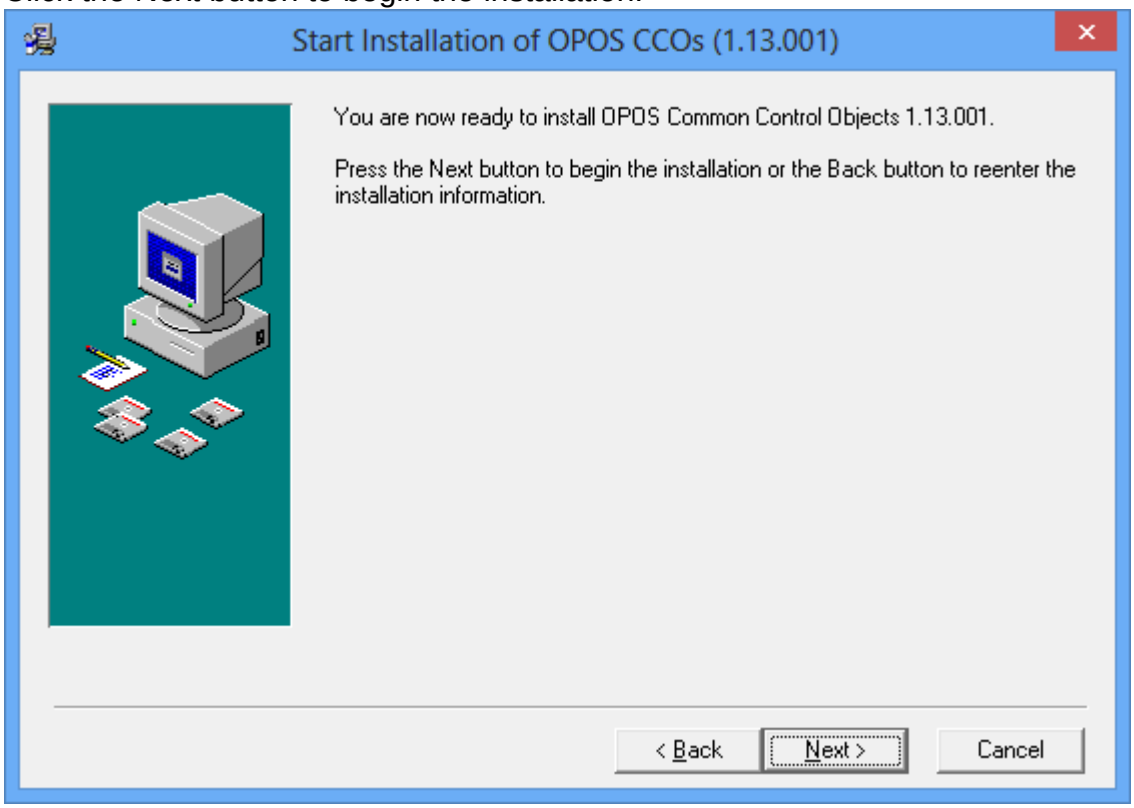
It will create backup copies of all files by default, please click the Next button.


Backup Replaced OPOS CCO Files
This installation program can create backup copies of all files replaced during the installation. These files will be used when the software is uninstalled and a rollback is requested. If backup copies are not created, you will only be able to uninstall the software and not roll the system back to a previous state. Do you want to create backups of the replaced files?
Yes
No
Please select the directory where the replaced files will be copied.
Backup File Destination Directory
C:\Program Files (x86)\OPOS\BACKUP
Browse...
< Back
Next >
Cancel

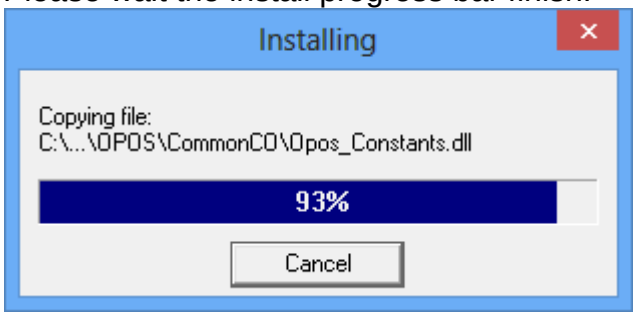
Click the Next button to continue.


Select OPOS CCO Components (1.13.001)
In the options list below, select the checkboxes for the options that you would like to have installed. The disk space fields reflect the requirements of the options you have selected.
Common Control Objects 4982 k
OPOS Include Files 385 k
Disk Space Required: 5367 k
Disk Space Remaining: 28298207 k
< Back
Next >
Cancel

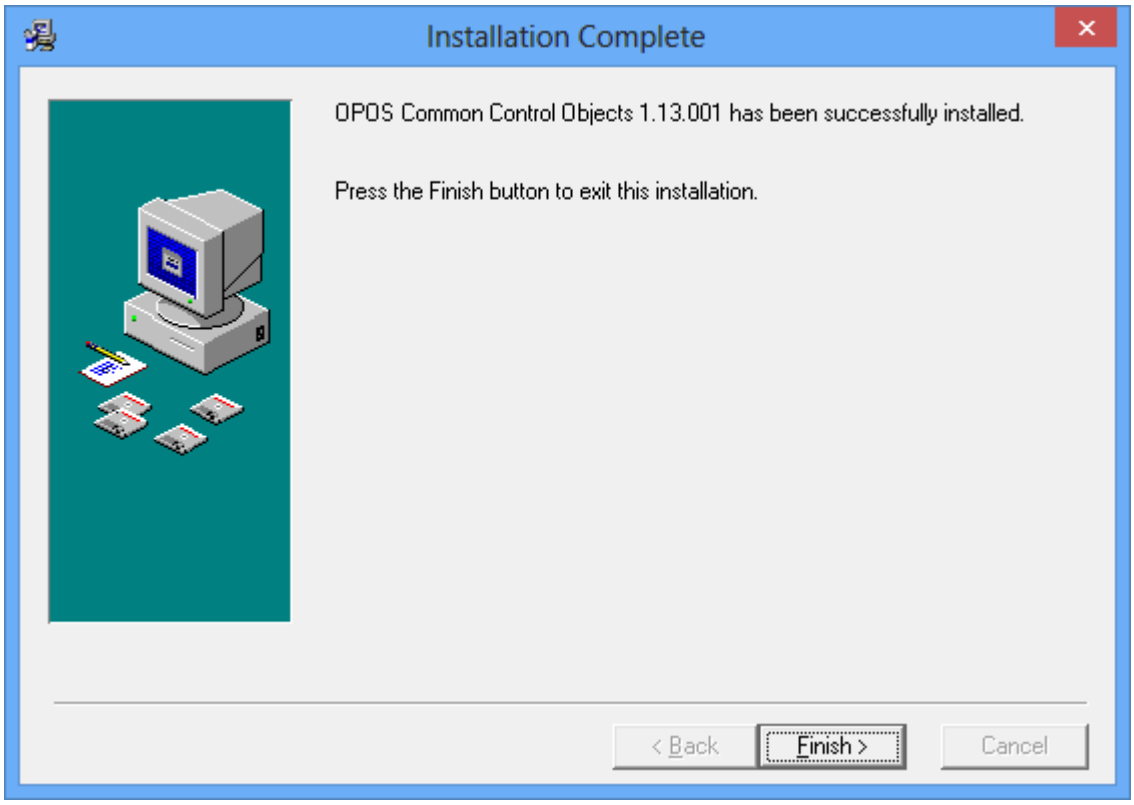
Click the Next button to begin the installation.


Start Installation of OPOS CCOs (1.13.001)
You are now ready to install OPOS Common Control Objects 1.13.001.
Press the Next button to begin the installation or the Back button to reenter the installation information.
< Back
Next >
Cancel

Please wait the install progress bar finish.

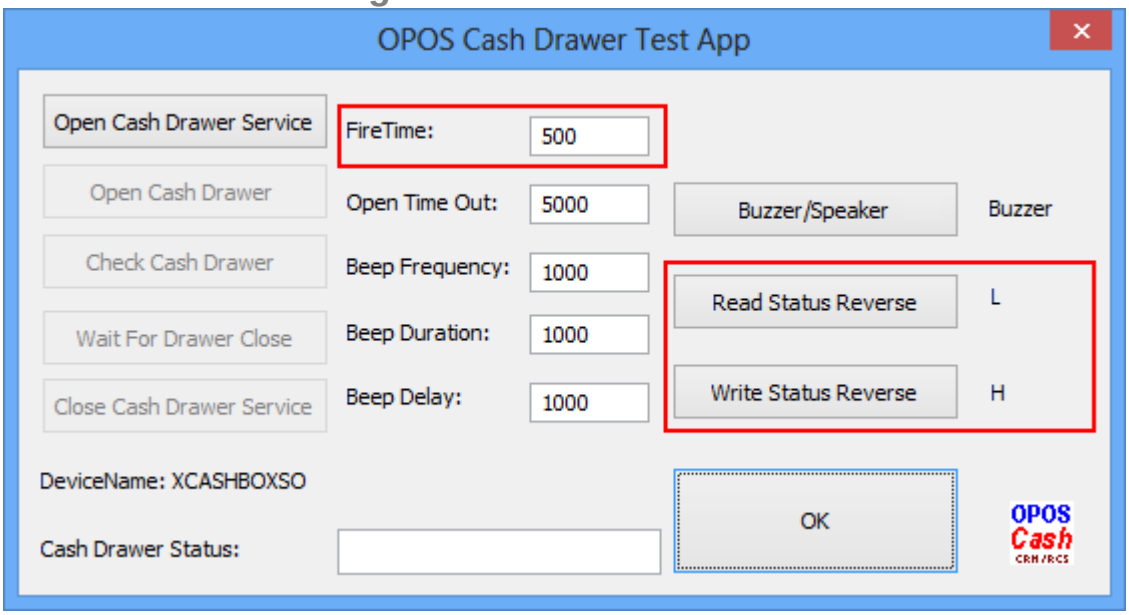


Click the Finish button to exit the installer.


Installation Complete
OPOS Common Control Objects 1.13.001 has been successfully installed.
Press the Finish button to exit this installation.
< Back
Finish >
Cancel

1.3. Cash Drawer function introduction.

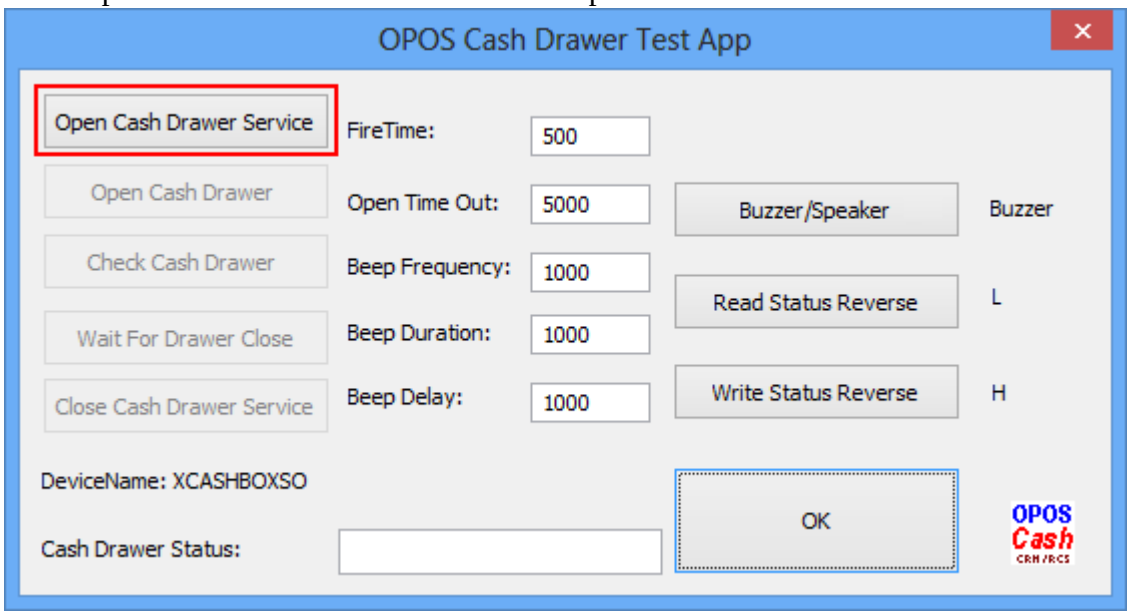
Cash Drawer Configuration



Before Open Cash Drawer Service, please configure the Cash Drawer configuration.
FireTime: It can configuration the voltage pulse timing to open the Cash Drawer.
Read Status Reverse: If the Cash Drawer is opened, but the Cash Drawer status is closed. Please click “Read Status Reverse” button to change the status from “L” to “H”.
Write Status Reverse:If the Cash Drawer cannot open or close, please click the “Write Status Reverse” button to change the status From “H” to “L”.
After the config the Cash Drawer setting, “Open Cash Drawer Service” will follow the setting to do the function.

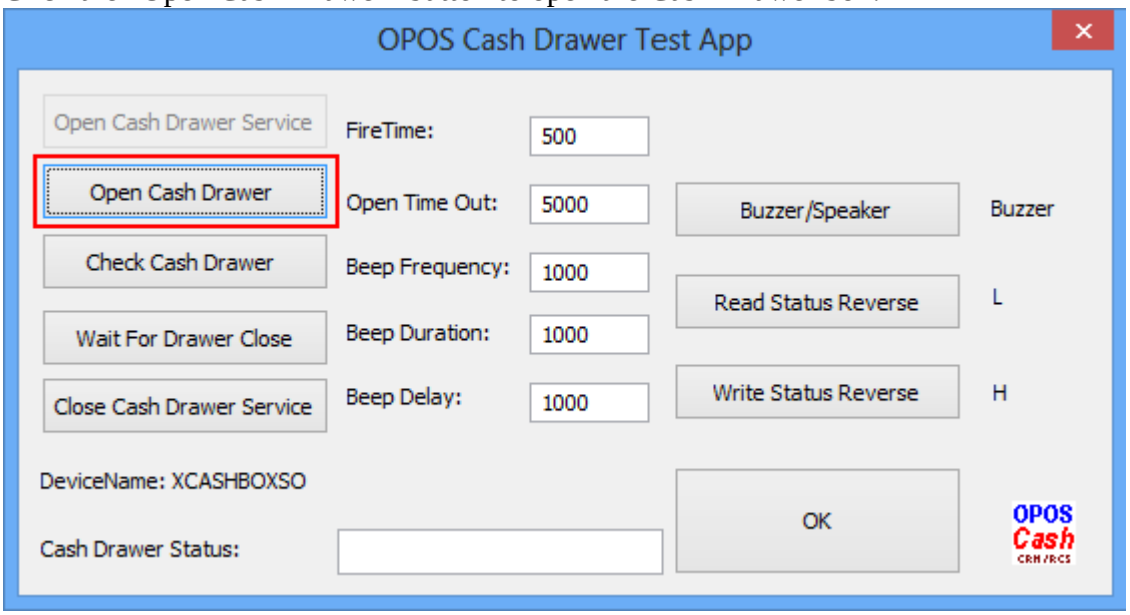
Open Cash Drawer service

Click the “Open Cash Drawer Service” button to open the OPOS Cash Drawer service.

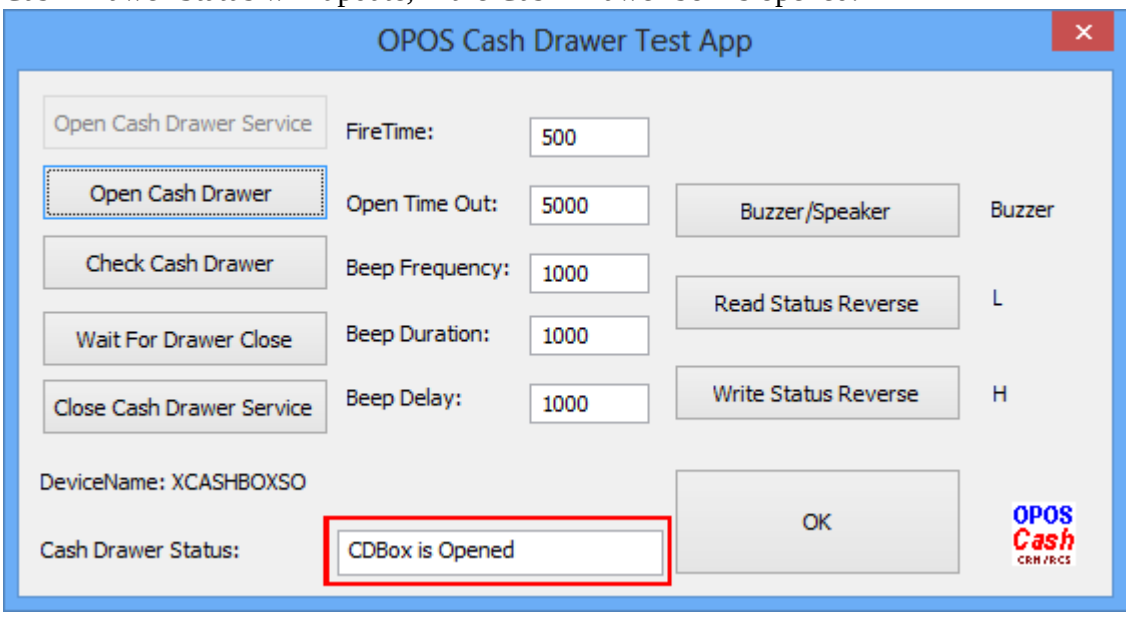


Open Cash Drawer

Click the “Open Cash Drawer” button to open the Cash Drawer box.

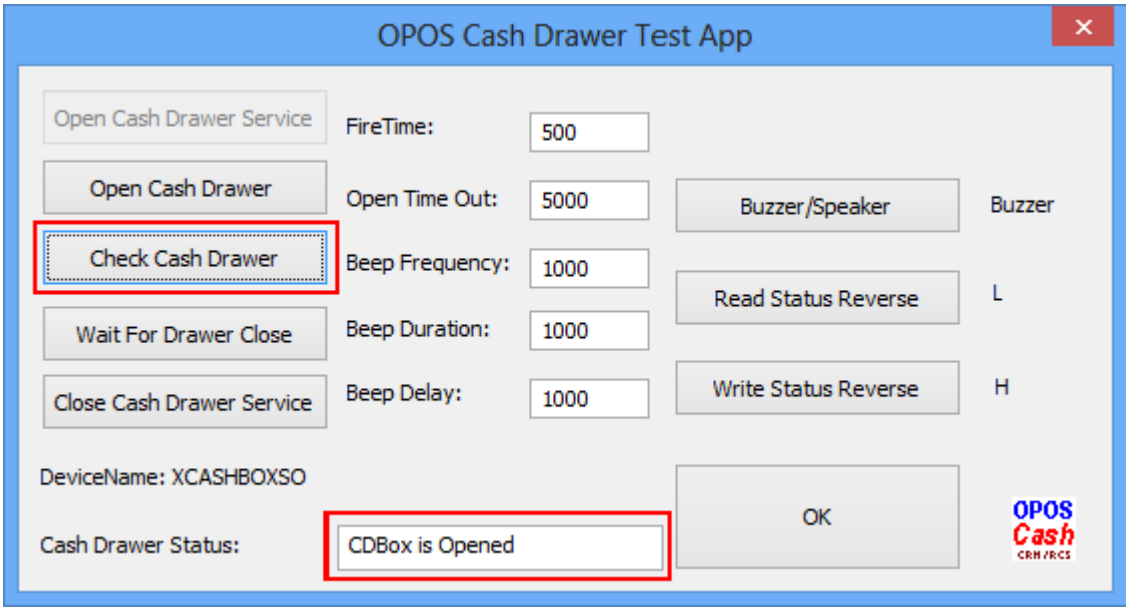


Cash Drawer Status will update, if the Cash Drawer box is opened.



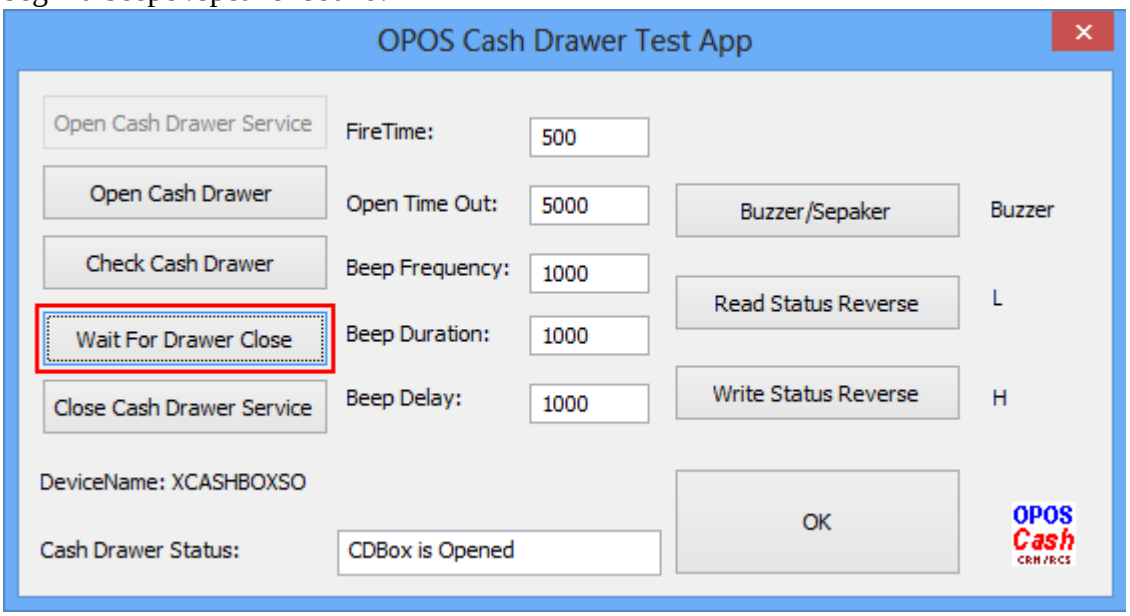
Cash Drawer Status

“Check Cash Drawer“ button can re-check the Cash Drawer box status.
Cash Drawer Status will show the Cash Drawer box status.



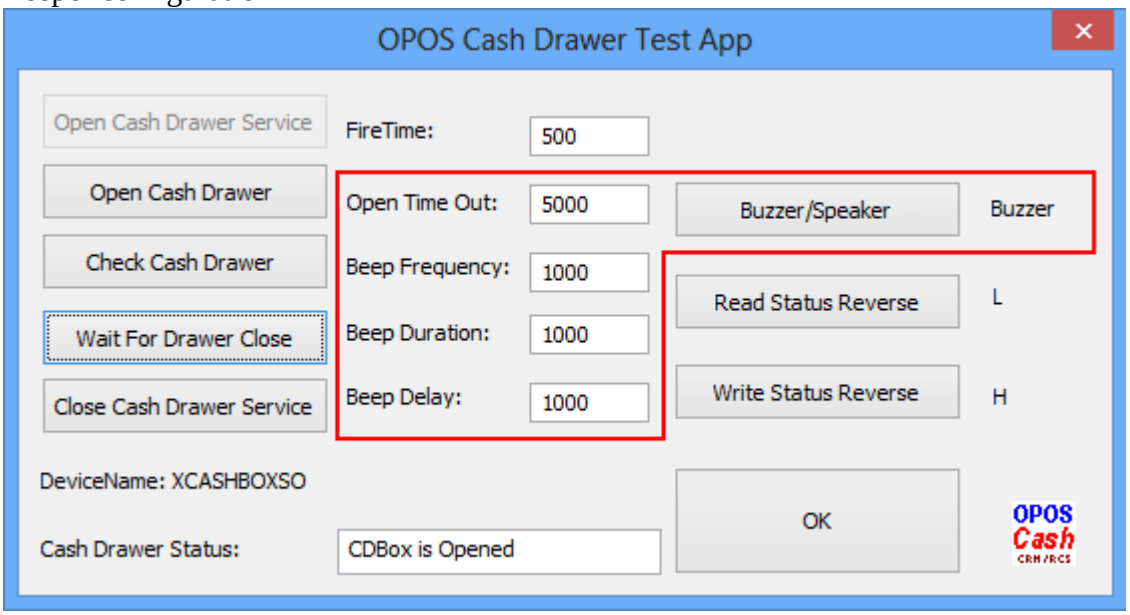
Wait For Drawer Close

If the Cash Drawer box is opened, click the “Wait For Drawer close” button will be about to begin a beeper/speaker sound.



Beeper/Speaker Configuration

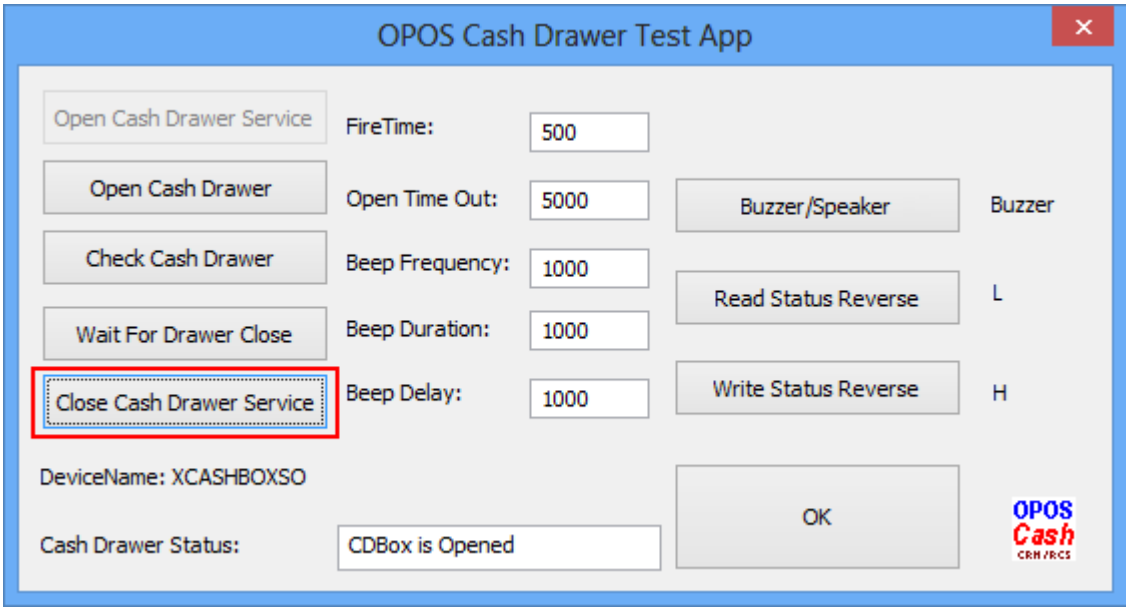
Beeper configuration



If the Cash Drawer box is not closed that out of the “Open Time Out”, the buzzer/speaker

Open Time Out: Default is 5000 ms.
Beep Frequency: Default is 1000 ms.
Beep Duration: Default is 1000 ms.
Beep Delay: Default is 1000 ms.
Buzzer/Speaker: Default is Buzzer, another option is speaker.

Close Cash Drawer Service



Close Cash Drawer Service: It can close the Cash Drawer Service.
It can click the “OK” button to exit the OPOS Cash Drawer Test App.

1.4Specification

OPOS VERSION	V1.6
Support OS	Windows® XP 32bit/64bit, Windows® 7 32bit/64bit, Windows® XP 8 32bit/64bit, Windows 8.1 32bit/64bit
I/O Ports	
Cash Drawer	1 x RJ12 (24VDC)

1.5 OPOS API support list

XcashboxSO v1.6 *Common Methods*

Name	Version	note
long Open(LPCTSTR DeviceName)	**1.0**	**use with a device name**
long Close()	**1.0**	**use after open, claim, enable**
long ClaimDevice(long Timeout)	**1.0**	**use after open**
long ReleaseDevice()	**1.0**	**use after open**
long CheckHealth(long Level)	**1.0(Note)**	**use after open**
clearInput ( ):	***Not supported***	
clearInputProperties ( ):	***Not supported***	
clearOutput ( ):	***Not supported***	
long DirectIO(long Command, long * pData, BSTR * pString)	**1.0(Not Applicable)**	
compareFirmwareVersion (firmwareFileName: *string*, **out result:** *int32* **):**	**1.9(Not supported)**	
resetStatistics (statisticsBuffer: *string* **):**	**1.8(Not supported)**	
retrieveStatistics (inout statisticsBuffer: *string* **):**	**1.8(Not supported)**	
updateFirmware (firmwareFileName: *string* **):**	**1.9(Not supported)**	
updateStatistics (statisticsBuffer: *string* **):**	**1.8(Not supported)**	

XcashboxSO v1.6 Specific Methods

Name	Version	note
openDrawer ( ):	**1.0(Note)**	**use after open, enable**
waitForDrawerClose (beepTimeout: int32, **beepFrequency:** int32, **beepDuration**: int32, **beepDelay**: int32)	**1.0(Note)**	**use after open, enable**
long get_OpenResult()	**1.0**	**use after open service**
CString get_CheckHealthText()	**1.0**	**use after open**
BOOL get_Claimed()	**1.0**	**use after open**
BOOL get_DeviceEnabled()	**1.0**	**use after open, claim**
void put_DeviceEnabled(BOOL newValue)	**1.0**	**use after open, claim**
BOOL get_FreezeEvents()	**1.0**	**use after open**
void put_FreezeEvents(BOOL newValue)	**1.0**	**use after open**

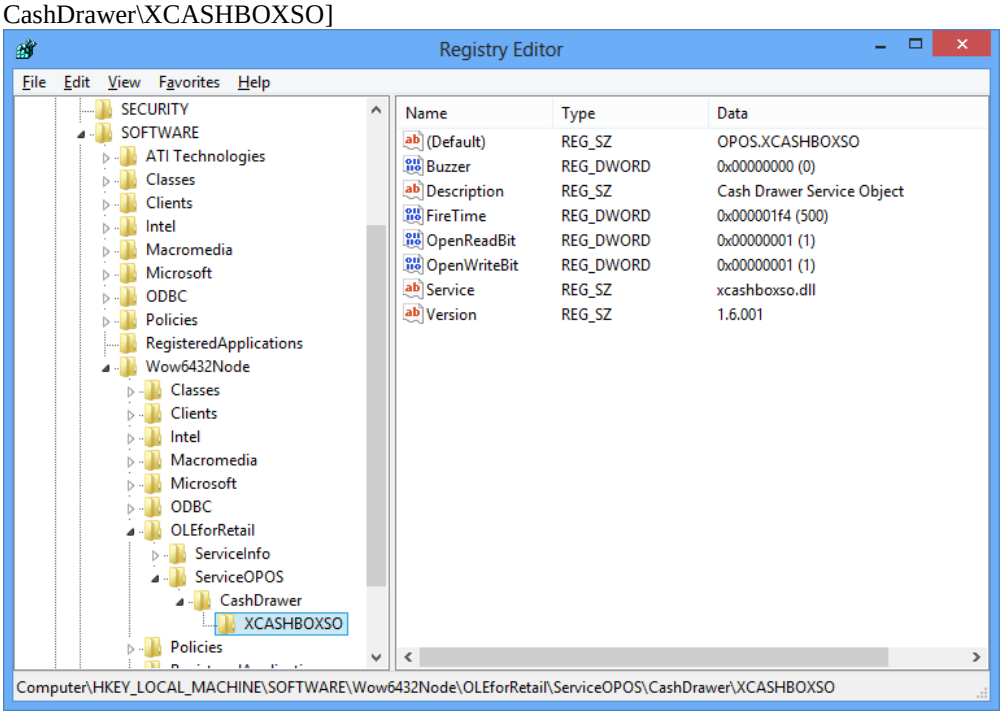
long get_ResultCode()	**1.0**	**use after open, claim,enable**
long get_ResultCodeExtended()	**1.0**	**use after open, claim,enable**
long get_State()	**1.0**	**use after open, claim,enable**
CString get_ControlObjectDescription()	**1.0**	**use after open**
long get_ControlObjectVersion()	**1.0**	**use after open**
CString get_ServiceObjectDescription()	**1.0**	**use after open**
long get_ServiceObjectVersion()	**1.0**	**use after open**
CString get_DeviceDescription()	**1.0**	**use after open**
CString get_DeviceName()	**1.0**	**use after open**
BOOL get_CapStatus()	**1.0**	**use after open, claim,enable**
BOOL get_DrawerOpened()	**1.0**	**use after open, claim,enable**
long get_BinaryConversion()	**not support**	
void put_BinaryConversion(long newValue)	**not support**	
long get_CapPowerReporting()	**not support**	
long get_PowerNotify()	**1.3(always enabled)**	
void put_PowerNotify(long newValue)	**1.3(always enabled)**	
long get_PowerState()	**1.3(always online)**	
BOOL get_CapStatusMultiDrawerDetect()	**1.5(always false)**	

Note: Also requires that no other application has claimed the cash drawer.

1.6 Registry setting

32bit OS registry path
[HKEY_LOCAL_MACHINE\SOFTWARE\OLEforRetail\ServiceOPOS\CashDrawer\XCASHBOXSO]

64bit OS registry path
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\OLEforRetail\ServiceOPOS\
CashDrawer\XCASHBOXSO]



Please setting the below configuration parameter before open the cash drawer service.

FireTime=dword:000001f4
Cash Drawer open fire time: millisecond

Buzzer/**Speaker**: Default is **Buzzer**=dword:00000001(Enabled), speaker is disabled.
Set **Buzzer**=dword:00000000 **Buzzer** is disabled, the **speaker** is enabled.

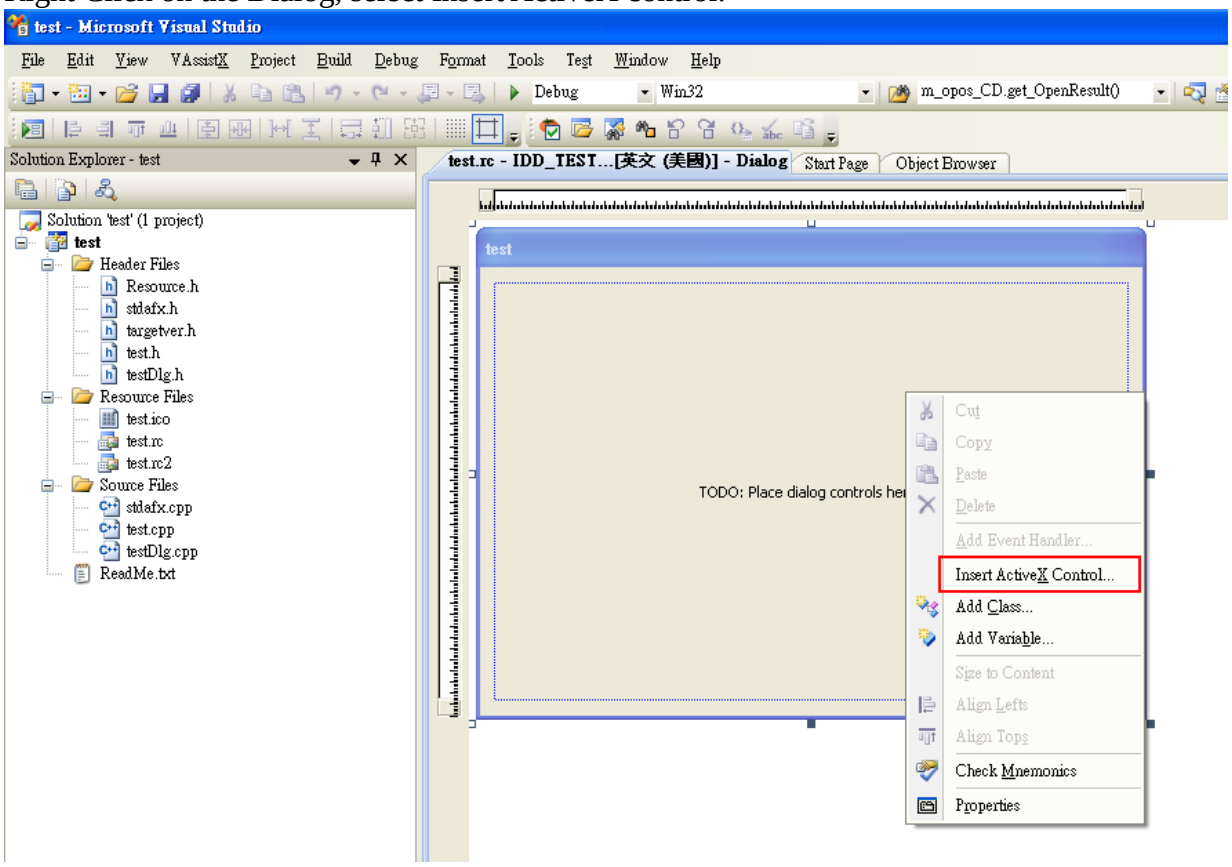
OpenWriteBit=dword:00000000
If the Cash Drawer cannot open or close, please set the "**OpenWriteBit**" to change the value From "0" to "1" or "1" to "0".

OpenReadBit=dword:00000001
If the Cash Drawer is opened, but the Cash Drawer status is closed.
, please set the "**OpenReadBit**" to change the value From "1" to "0" or "0" to "1".

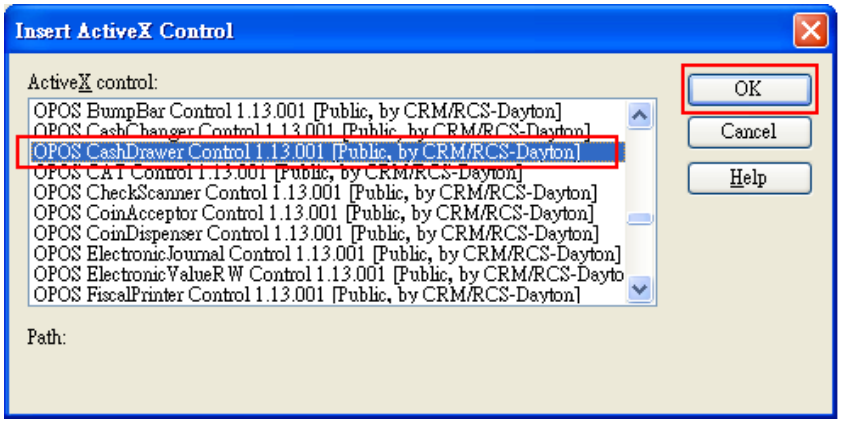
1.7 Cash Drawer Sample code

Please install OPOS Common Control Objects 1.13.001 installer and header files.

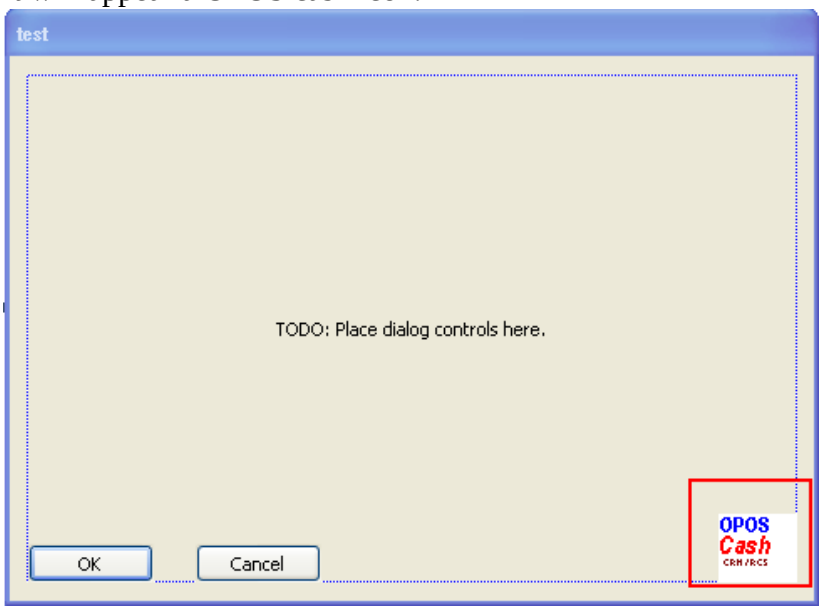
Right Click on the Dialog, select Insert ActiveX control.



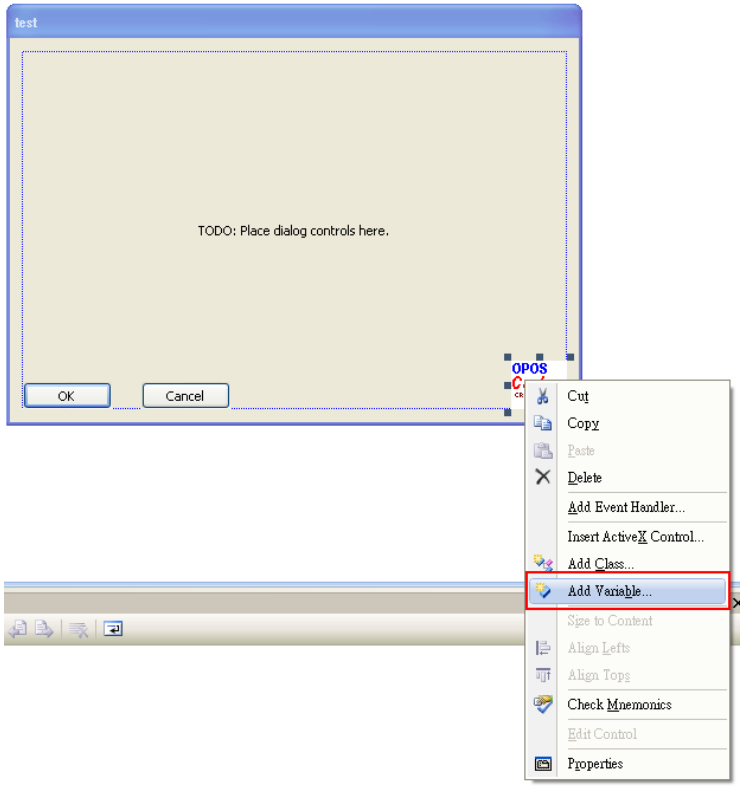
Select OPOS CashDrawer controller 1.13.001 ActiveX control and OK.


Insert ActiveX Control
ActiveX control:
OPOS BumpBar Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS CashChanger Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS CashDrawer Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS CAT Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS CheckScanner Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS CoinAcceptor Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS CoinDispenser Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS ElectronicJournal Control 1.13.001 [Public, by CRM/RCS-Dayton]
OPOS ElectronicValueRW Control 1.13.001 [Public, by CRM/RCS-Dayto
OPOS FiscalPrinter Control 1.13.001 [Public, by CRM/RCS-Dayton]
Path:
OK
Cancel
Help

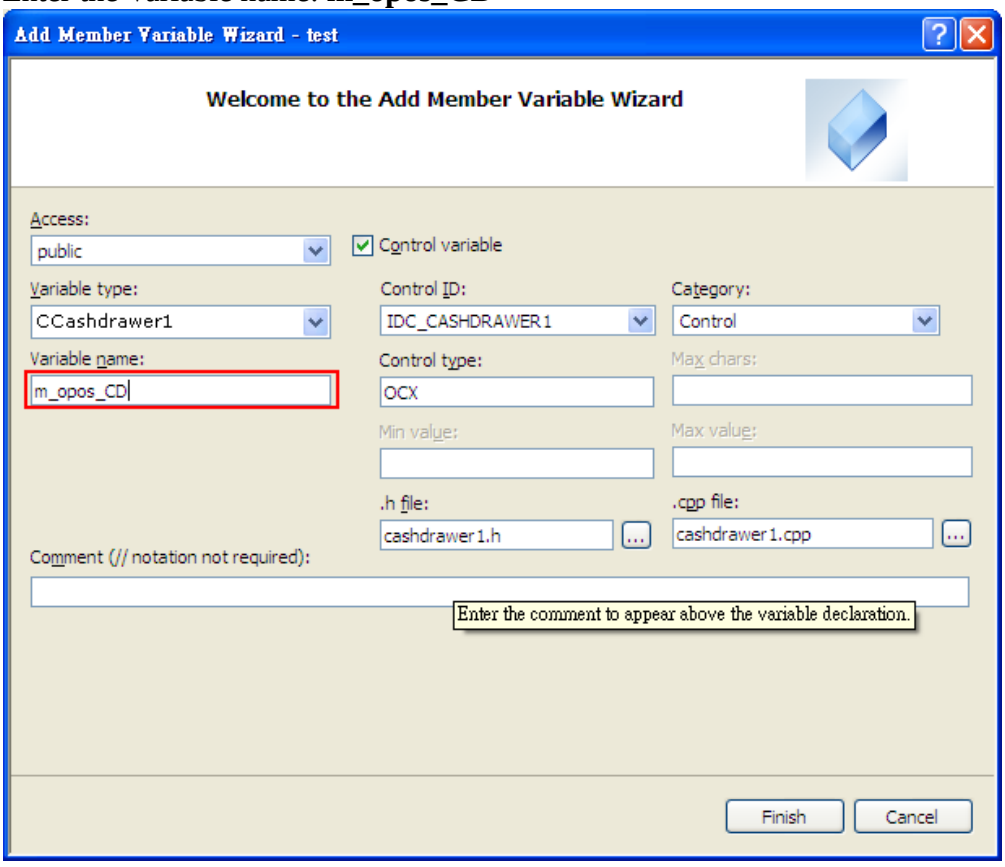
It will appear a OPOS cash icon.



Make a cash drawer class object implement.
CCashdrawer m_opos_CD;
Right click on the “OPOS CASH” icon to create a variable.



Enter the Variable name: **m_opos_CD**



Please Include OPOS header files to use OPOS define.

```
#include "C:\Program Files\OPOS\Include\opos.h"
#include "C:\Program Files\OPOS\Include\opos.hi"
#include "C:\Program Files\OPOS\Include\oposCash.h"
#include "C:\Program Files\OPOS\Include\oposCash.hi"
```

Cash Drawer open service sample:

```
CString strDeviceName;
StrDeviceName = "XCASHBOXSO";
m_opos_CD.Open(strDeviceName);
m_opos_CD.ClaimDevice (500)
m_opos_CD.put_DeviceEnabled(true);

if(m_opos_CD.get_CapStatus () == CASH_SUE_DRAWERCLOSED)
      MessageBox (_T("CDBox is Opened"),_T("Note"), MB_OK);
else
      MessageBox (_T("CDBox is Close "),_T("Note"), MB_OK);
```

Open Cash Drawer sample:

```
if(m_opos_CD.OpenDrawer() != OPOS_SUCCESS)
{
      MessageBox(_T("open CDBox Fail !"),_T("Note"), MB_OK);
      return;
}
```

Check Cash Dawer sample:

```
if(m_opos_CD.get_DrawerOpened())
      MessageBox (_T("CDBox is Opened"),_T("Note"), MB_OK);
else
      MessageBox (_T("CDBox is Closed"),_T("Note"), MB_OK);
```

WaitForDrawerClose sample:

```
m_opos_CD.WaitForDrawerClose(5000,1000,1000,1000);
```

Close Service samle:

```
m_opos_CD.put_DeviceEnabled (false);
m_opos_CD.ReleaseDevice();
m_opos_CD.Close ()
```